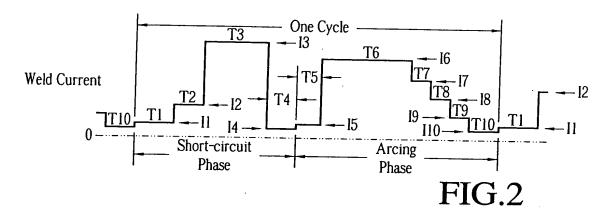


FIG.1



			
Segment Number	Current (Amps)	Time (msec)	Trigger
1	11	T1	T10 (completion)
2	12	T2	Prior
3	I3	T3	Prior
4	14	T4	Prior
5	I5	T5	Prior
6	16	Т6	Prior
7	17	T7	Prior
8	I 8	T8	Prior
9	<u> </u>	T9	Prior
10	110	T10	Prior

Segment Number	Current (Amps)	Time (msec)	Trigger
1	I1 :	T1	T5 (completion)
2	I2	T2	Prior
3	I3	Т3	Prior
4	I 4	T4	Prior
5	I5	T5	Prior

FIG.5

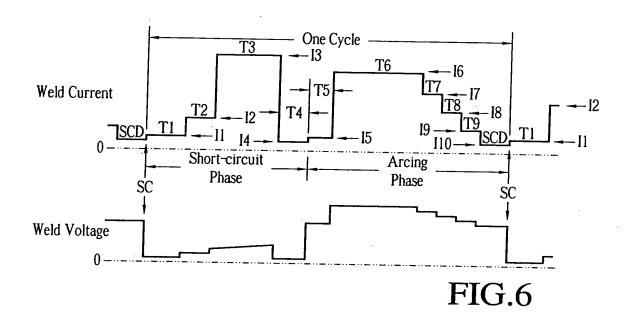


Table 2 — Enhancement 1

		abic 2 Limancement	ı
Segment Number	Current (Amps)	Time (msec)	Trigger
1	I1	Tl	SC
2	I2	T2	Prior
3	I3	Т3	Prior
4	I4	T4	Prior
5	I5	T5	Prior
6	<u>l6</u>	T6	Prior
7	17	T7	Prior
8	18	Т8	Prior
9	1 9	T9	Prior
10	I10	SCD	Prior

FIG.7

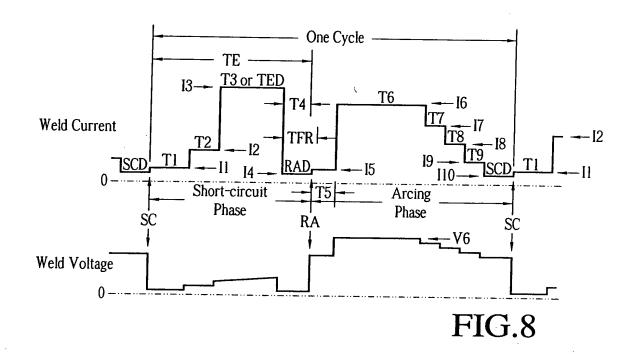


Table 3 — Enhancement 3

Tuble 6 Elitaric Helit 5				
Segment Number	Current (Amps)	Time (msec)	Trigger	
1	II	T1	SC	
2	I2	T2	Prior	
3	13	T3 or TED	Prior	
4	I4	T4, RAD, or TFR	Prior or TE-T4	
5.	I5	T5	Prior, RA, or TFR	
6	16	T6	Prior	
7	17	T7	Prior	
8		T8	Prior	
9	I9	T9	Prior	
10	I10	SCD	Prior	

FIG.9



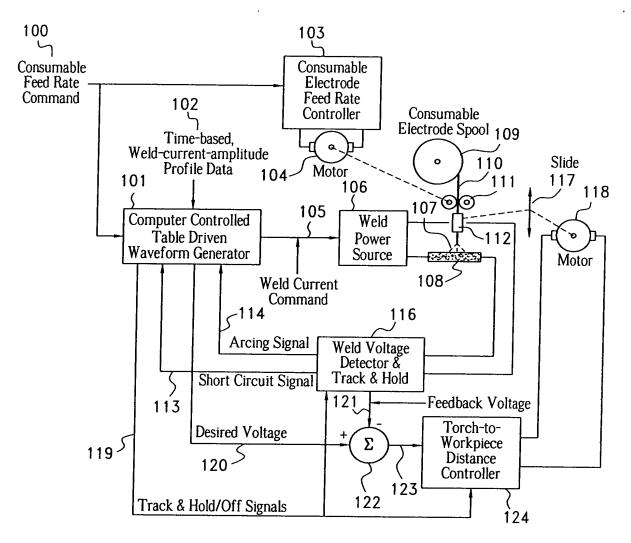


FIG.10

Segment Number	Current (Amps)	Time (msec)	Trigger	Distance Control Voltage(Volts)
1	II	Tl	SC	OFF
2	I2	T2	Prior	OFF
3	I3	T3 or TED	Prior	OFF
4	I4	T4, RAD, or TFR	Prior or TE-T4	OFF
5	I 5	T5	Prior, RA, or TFR	OFF
6	I 6	T6	Prior	V6
7	17	T7	Prior	OFF
88	18	T8	Prior	OFF
9	19	T9	Prior	OFF
10	I10	SCD	Prior	OFF

FIG.11

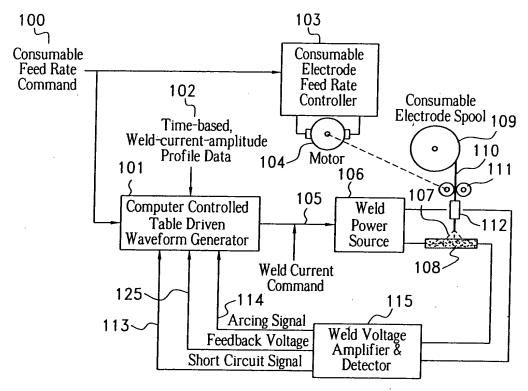


FIG.12

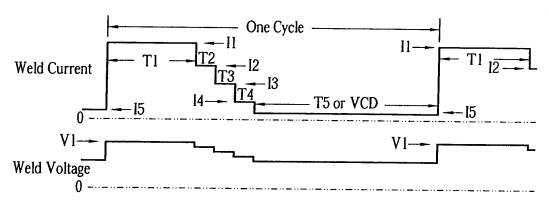


FIG.13

Table 5 — Enhancement 8 for Pulsed-spray Processes

Segment Number	Current (Amps)	Time (msec)	Trigger	Weld Voltage (Volts)
1	II I	Tl	VCD	VI
2	12	T2	Prior	OFF
3	13	Т3	Prior	OFF
· 4	14	T4	Prior	OFF
5	I5	T5 or VCD	Prior	OFF

FIG.14